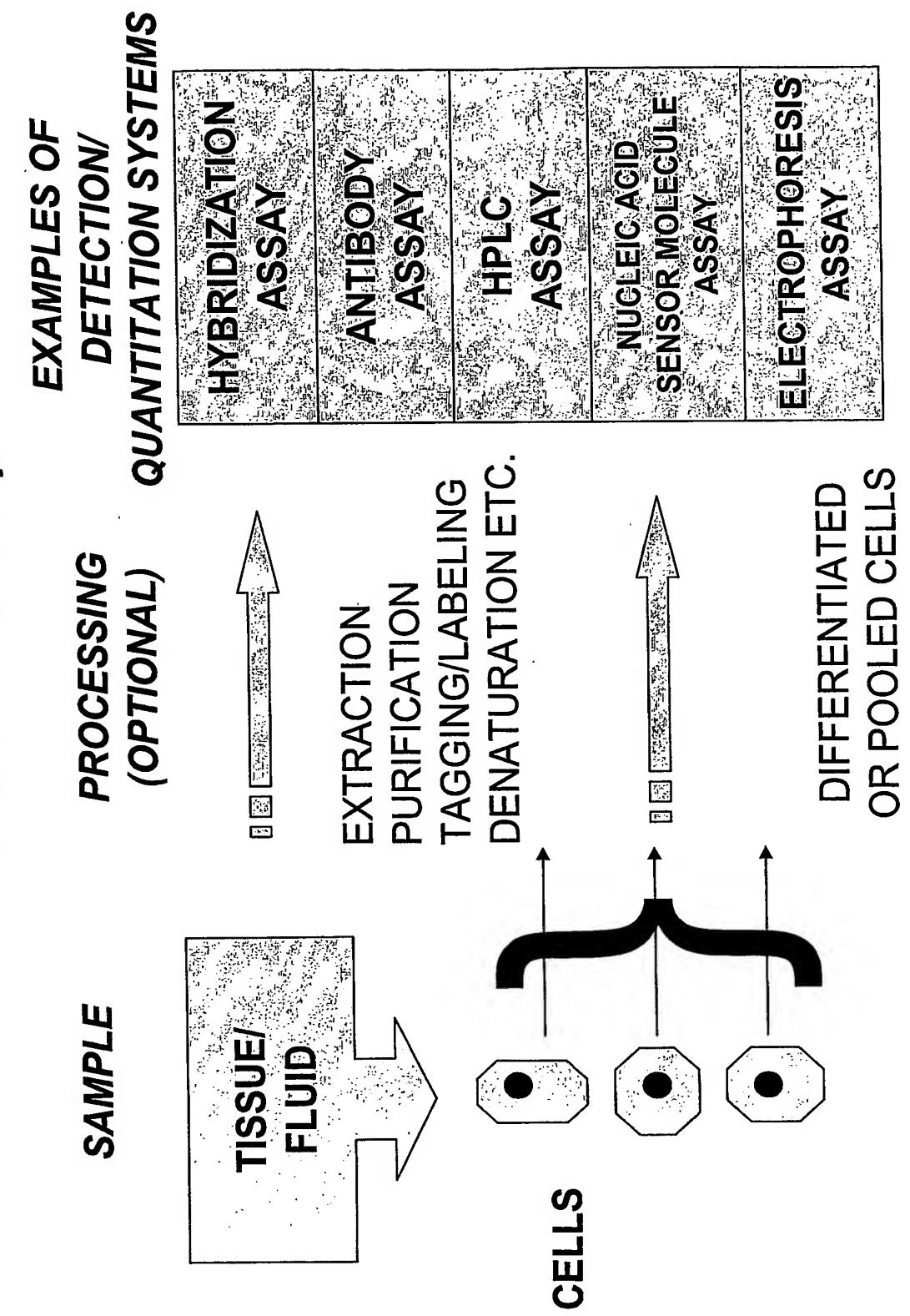
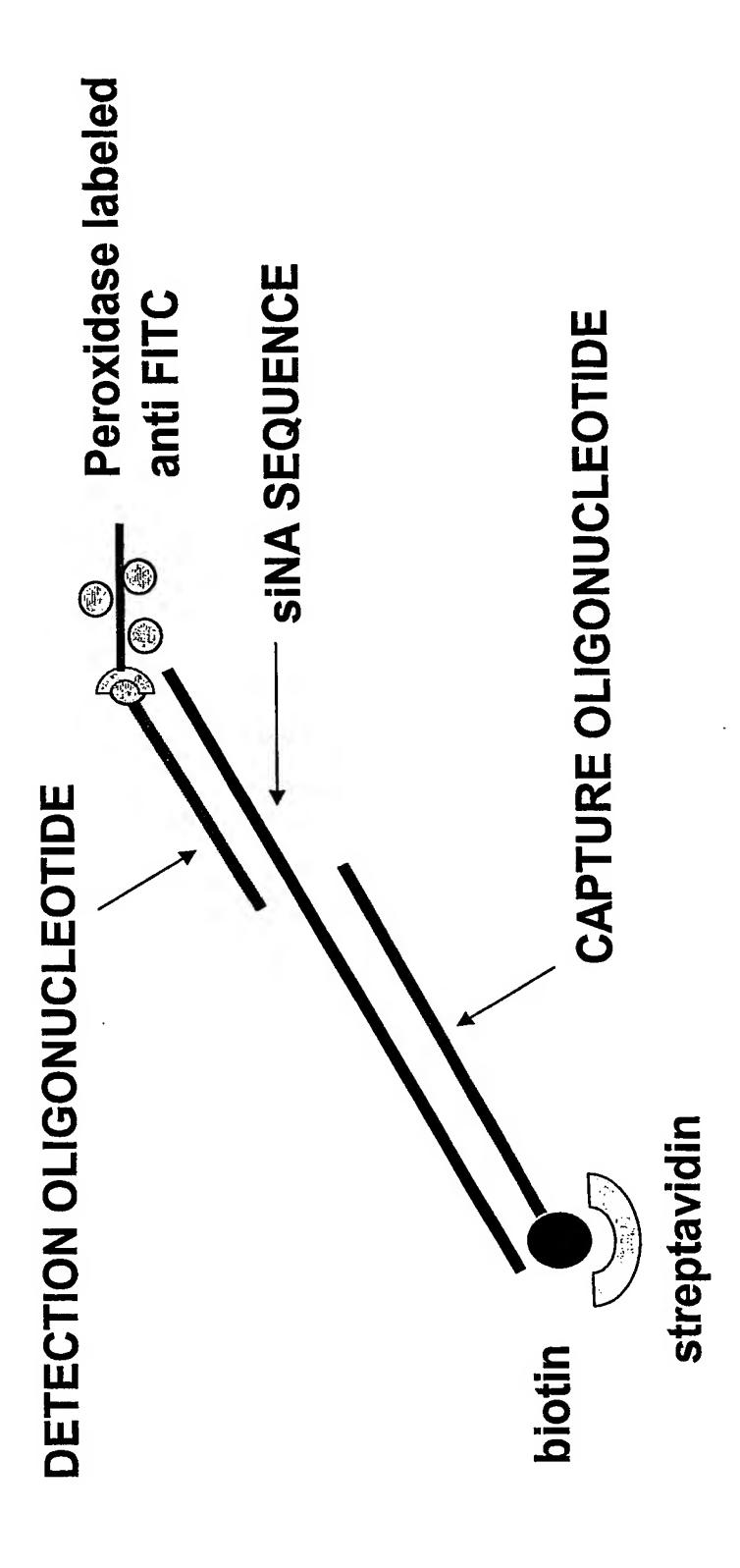
Figure 1A: Detection and Quantitation Of siNA in a Sample

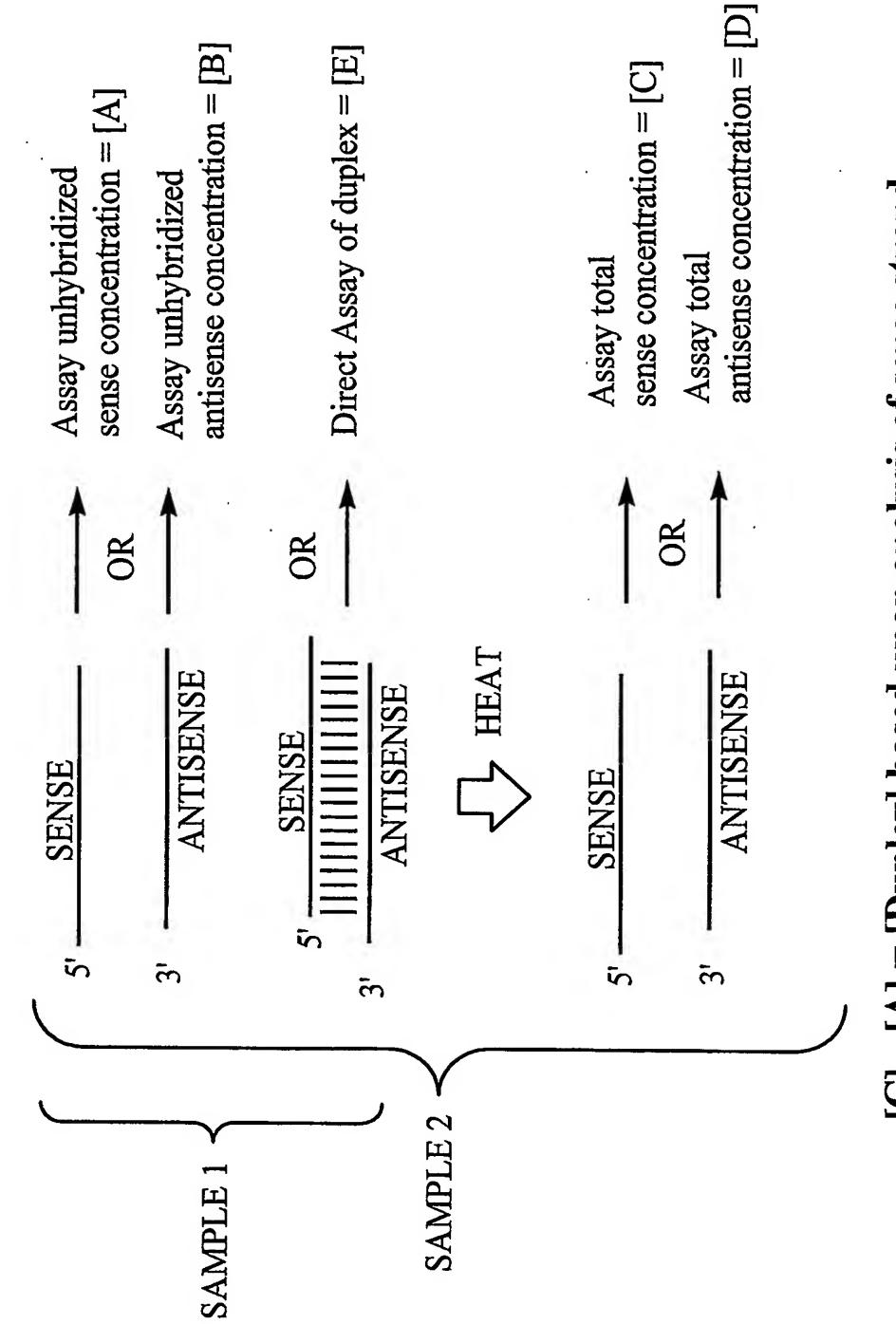


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siNA Hybridization Assay Figure 1B:

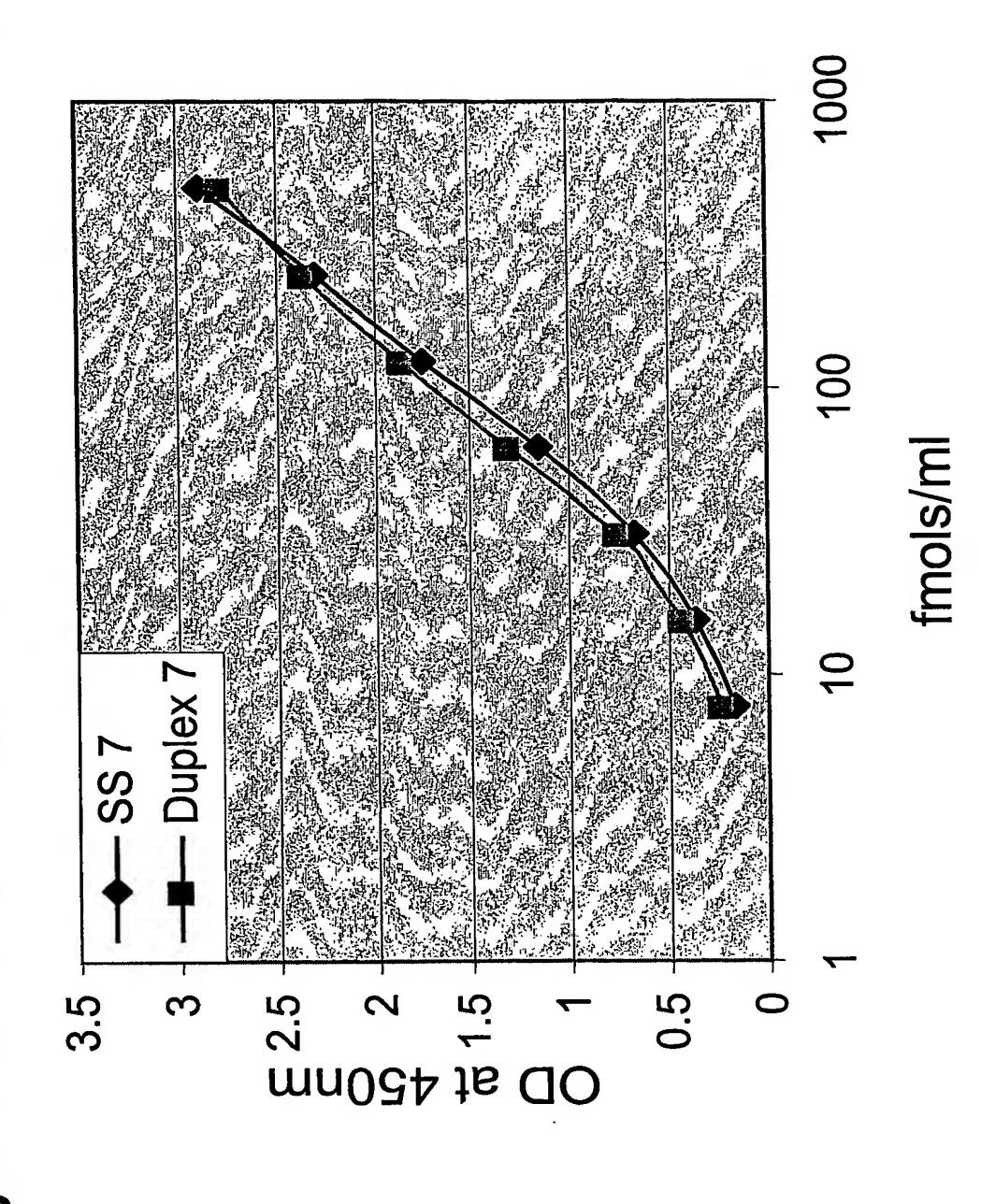


siNA detection/quantitation Assays Figure 1C: Principle of



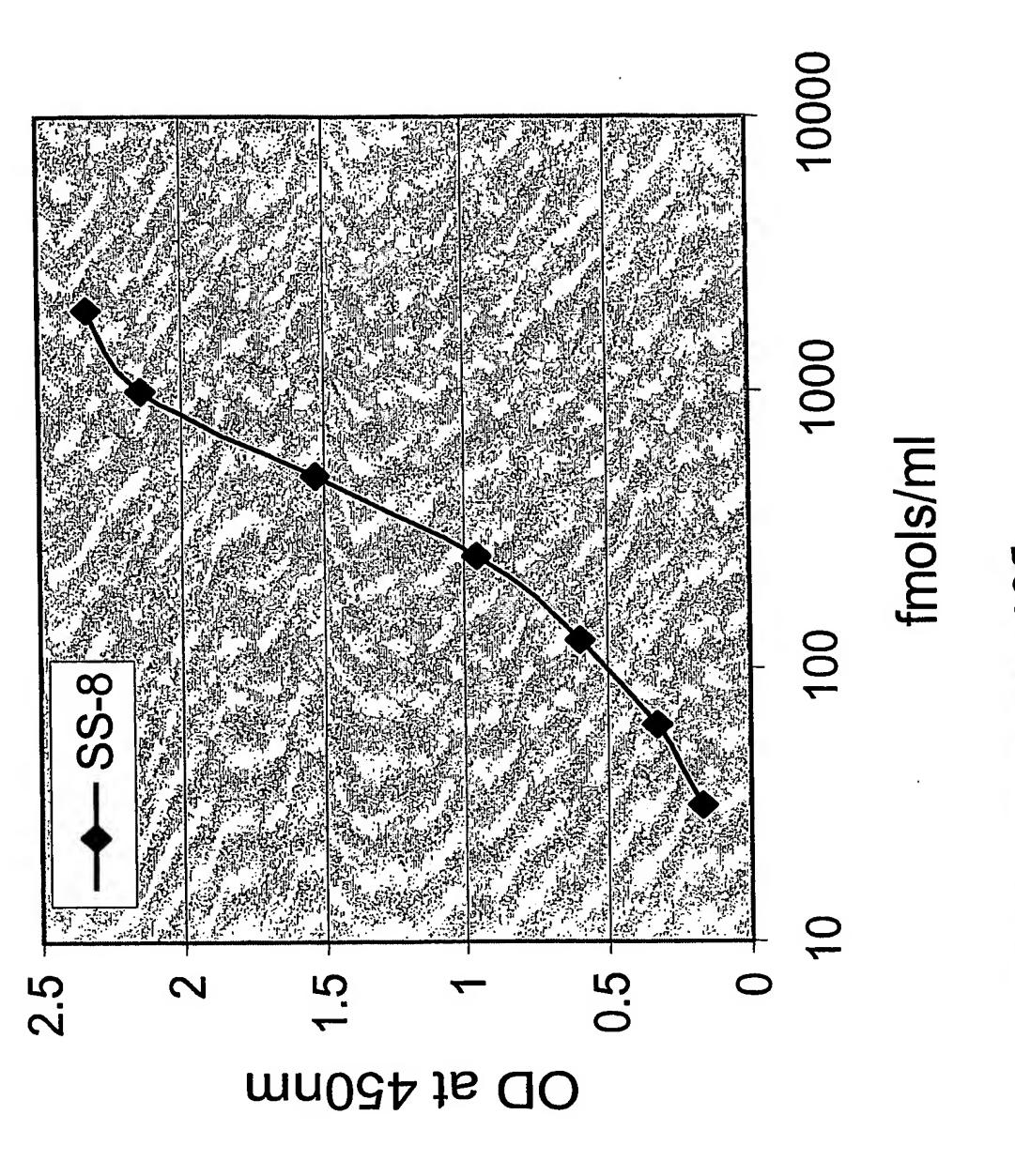
 [C] - [A] = [Duplex] based upon analysis of sense strand
[D] - [B] = [Duplex] based upon analysis of antisense strand
[E] = [Duplex] based upon direct analysis of duplex [Duplex] based upon direct analysis of duplex

7 Sense Strand Standard Curve Figure 2A: siNA Stab



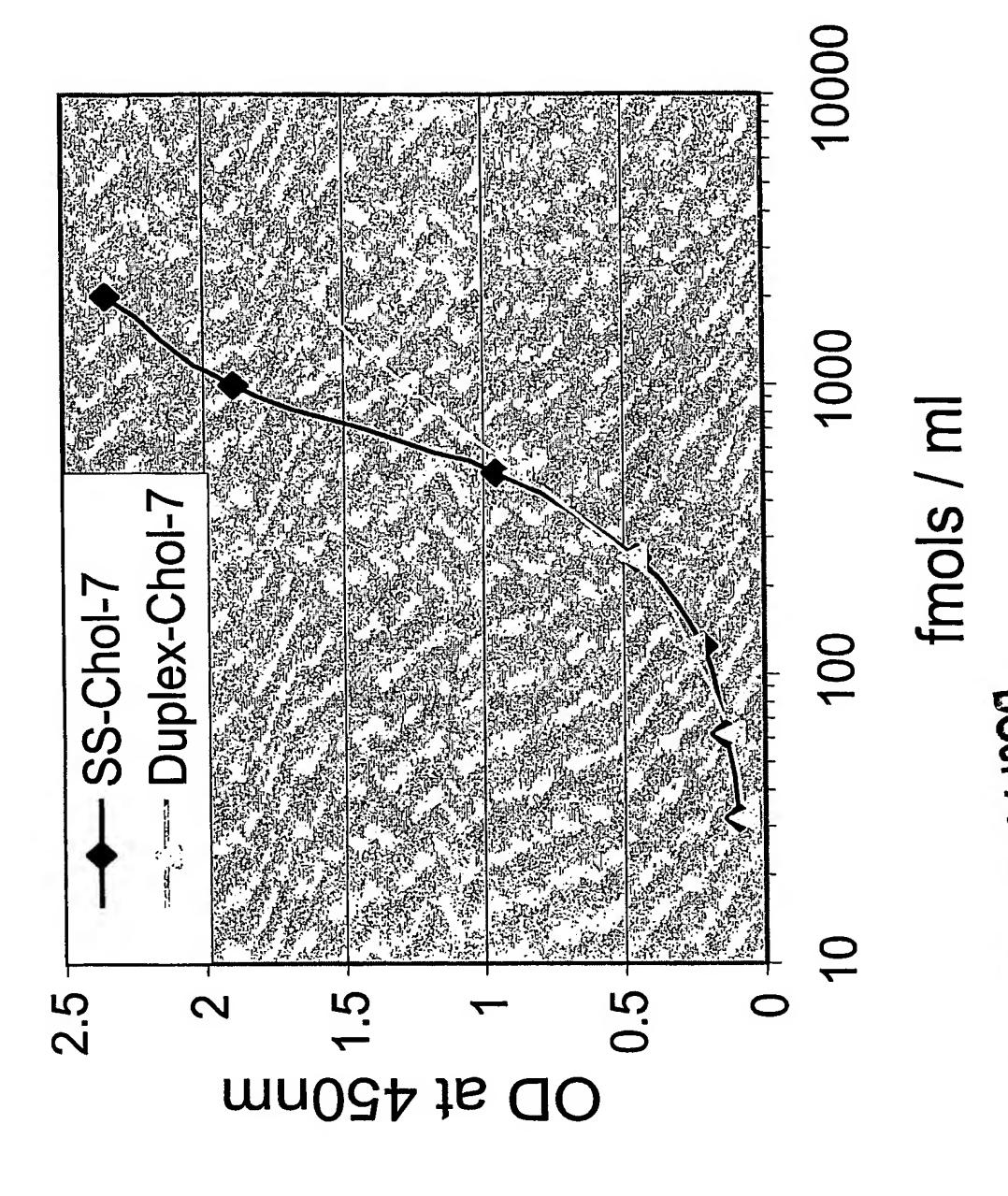
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Antisense Strand Standard Curve Figure 2B: siNA Stab 8



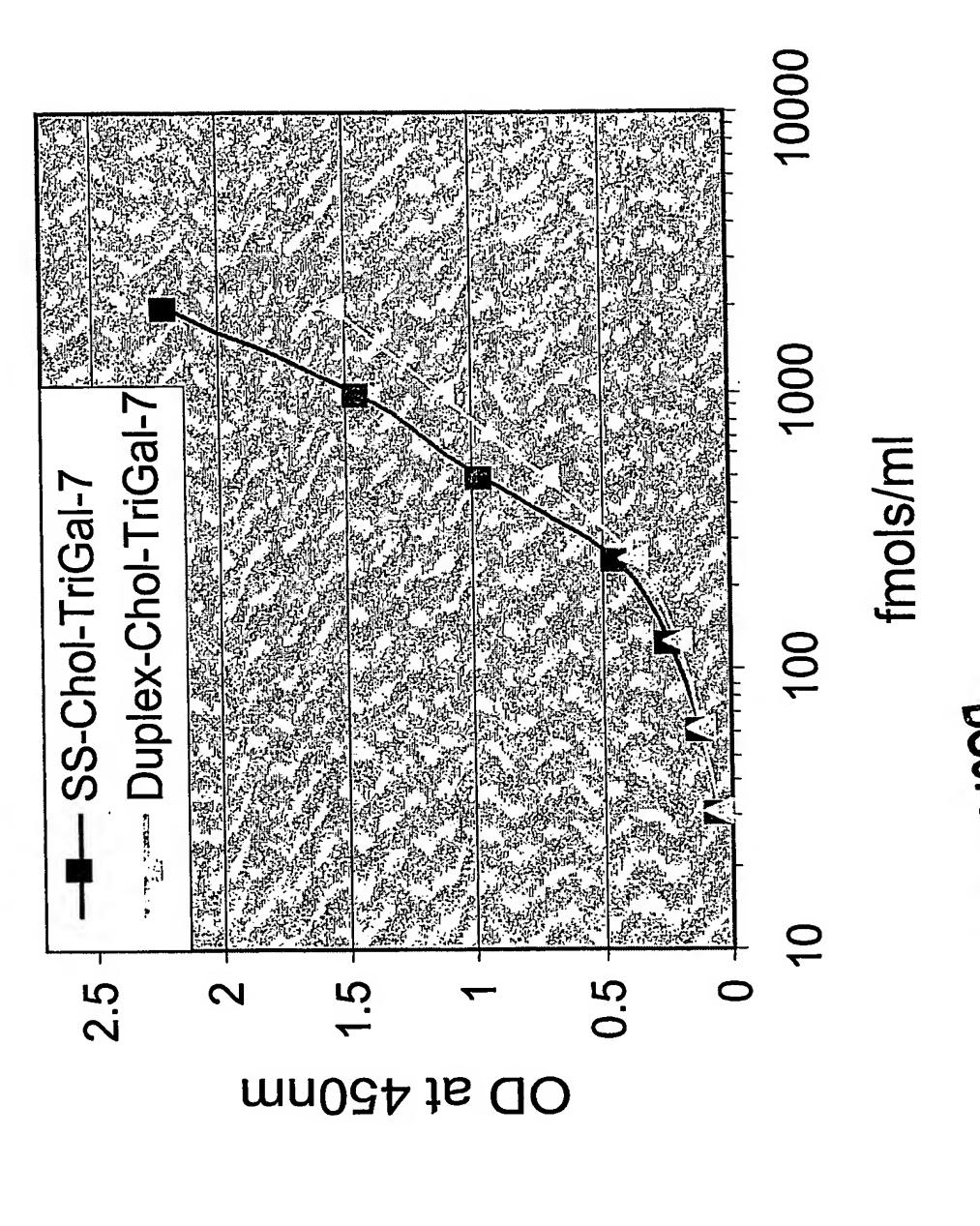
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tab 7 Cholesterol Conjugate and Standard Curve Figure 2C: siNA S Sense Stu



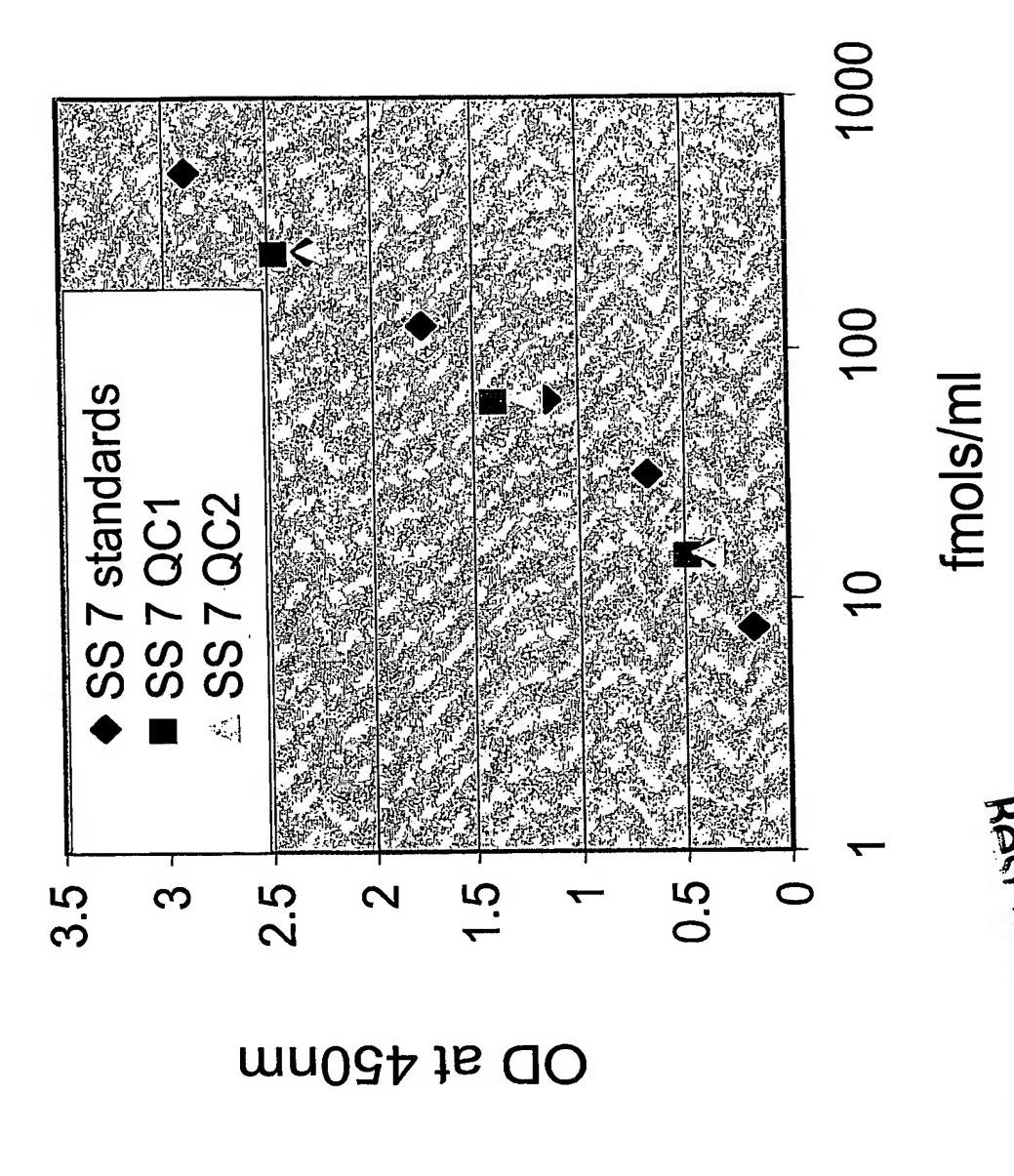
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Figure 2D: siNA Stab 7 Trigalactose Cholesterol Conjugate Antisense Strand Standard Curve Conjugate Antise



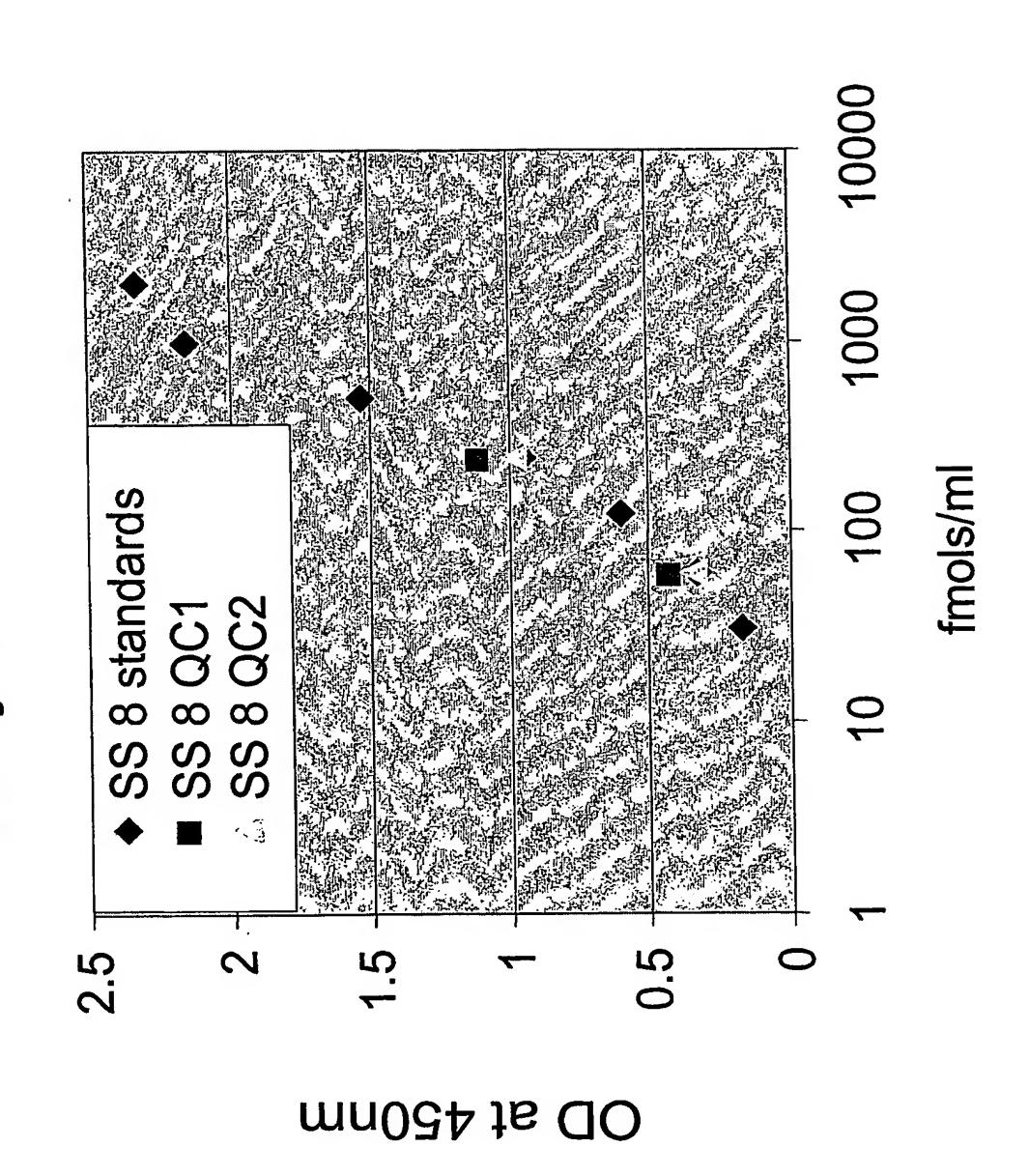
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1A Stab 7 Single Stranded y Control Sample Figure 3A: sin

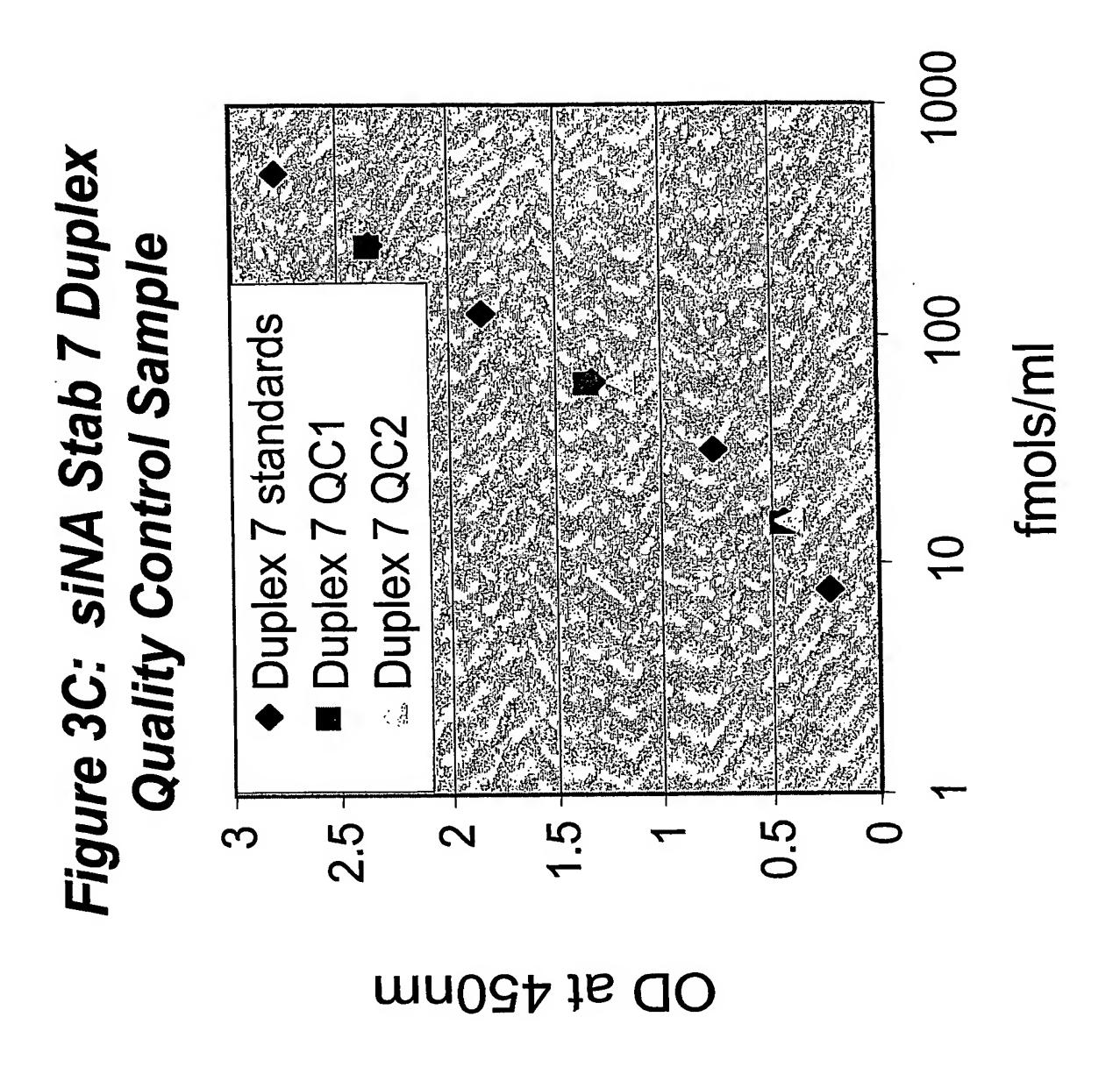


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4 Stab 8 Single Stranded Control Sample Figure 3B: siNA Quality

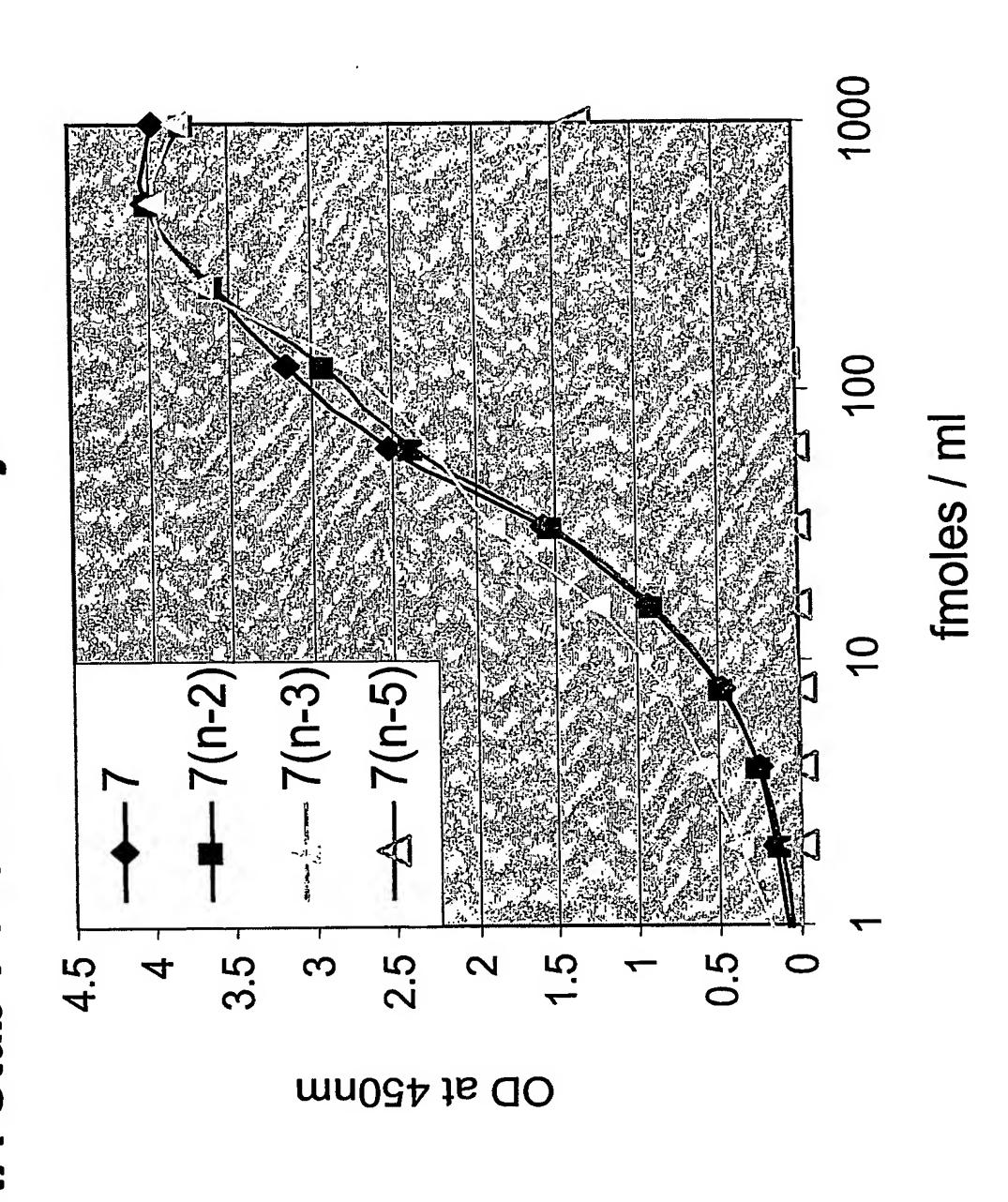


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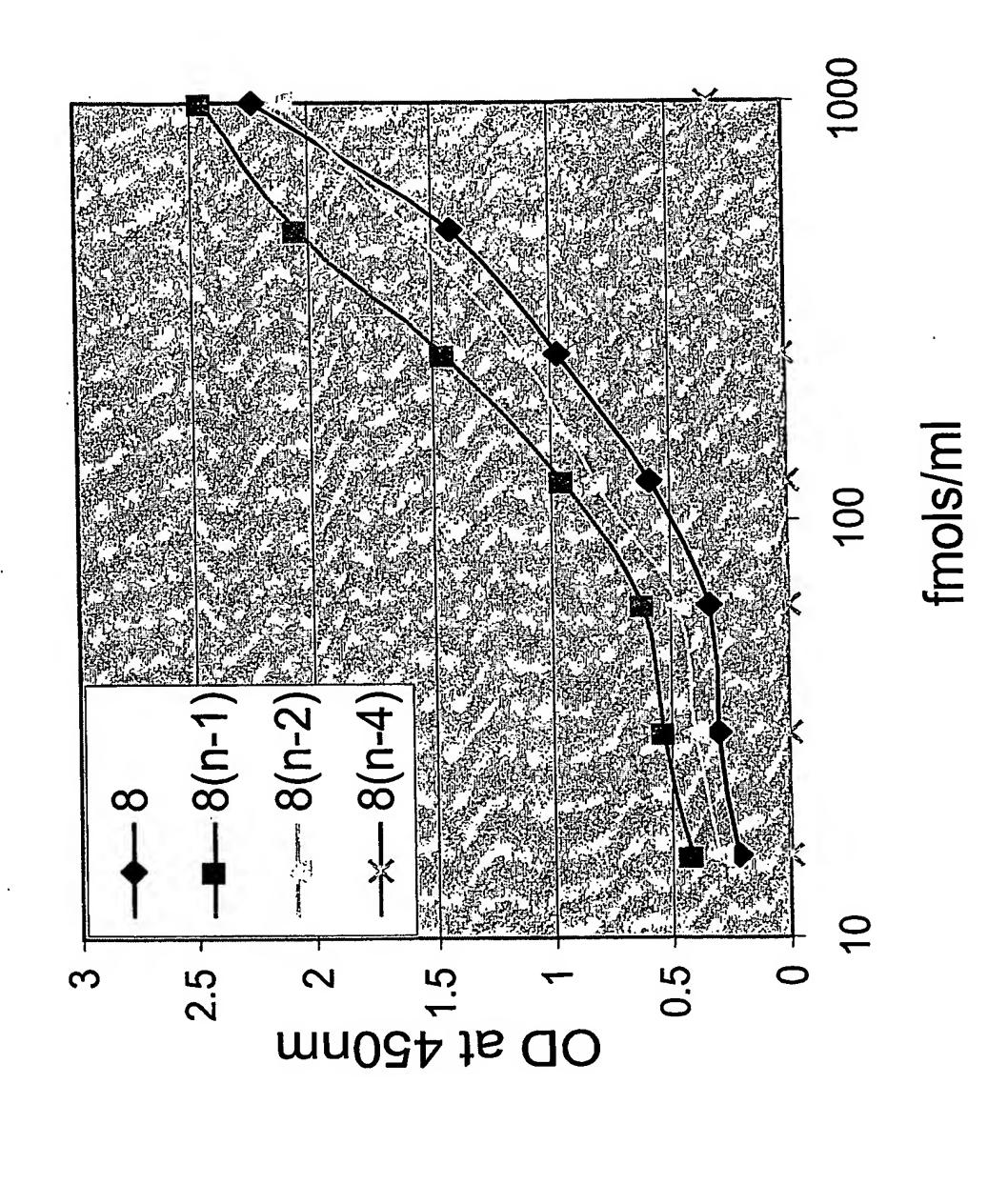
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Figure 4A: Detection of potential siNA Stab 7 Metabolites via Hybridization Assay



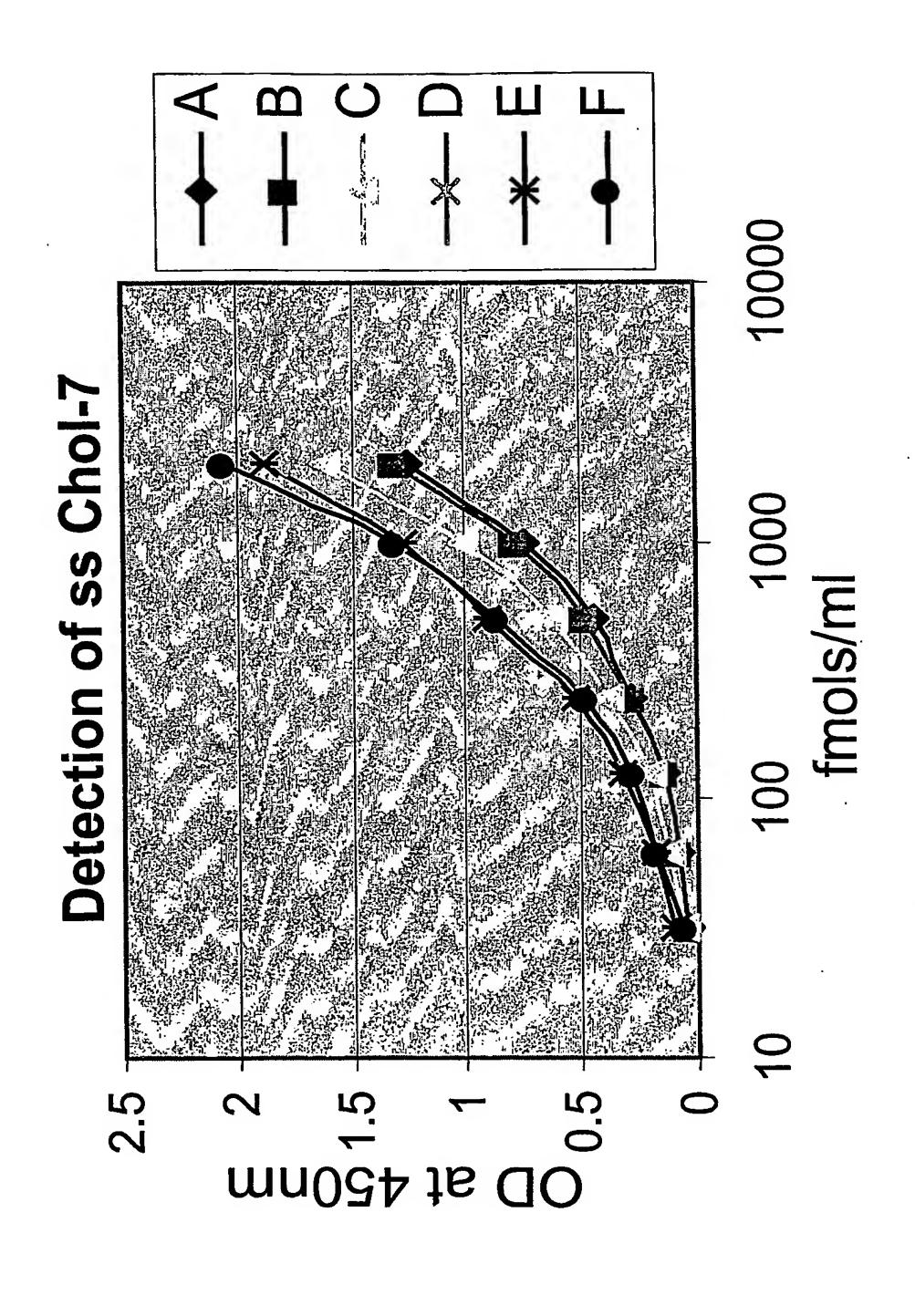
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Detection of potential olites via Hybridization Assay siNA Stab 8 Metabo Figure 4B:



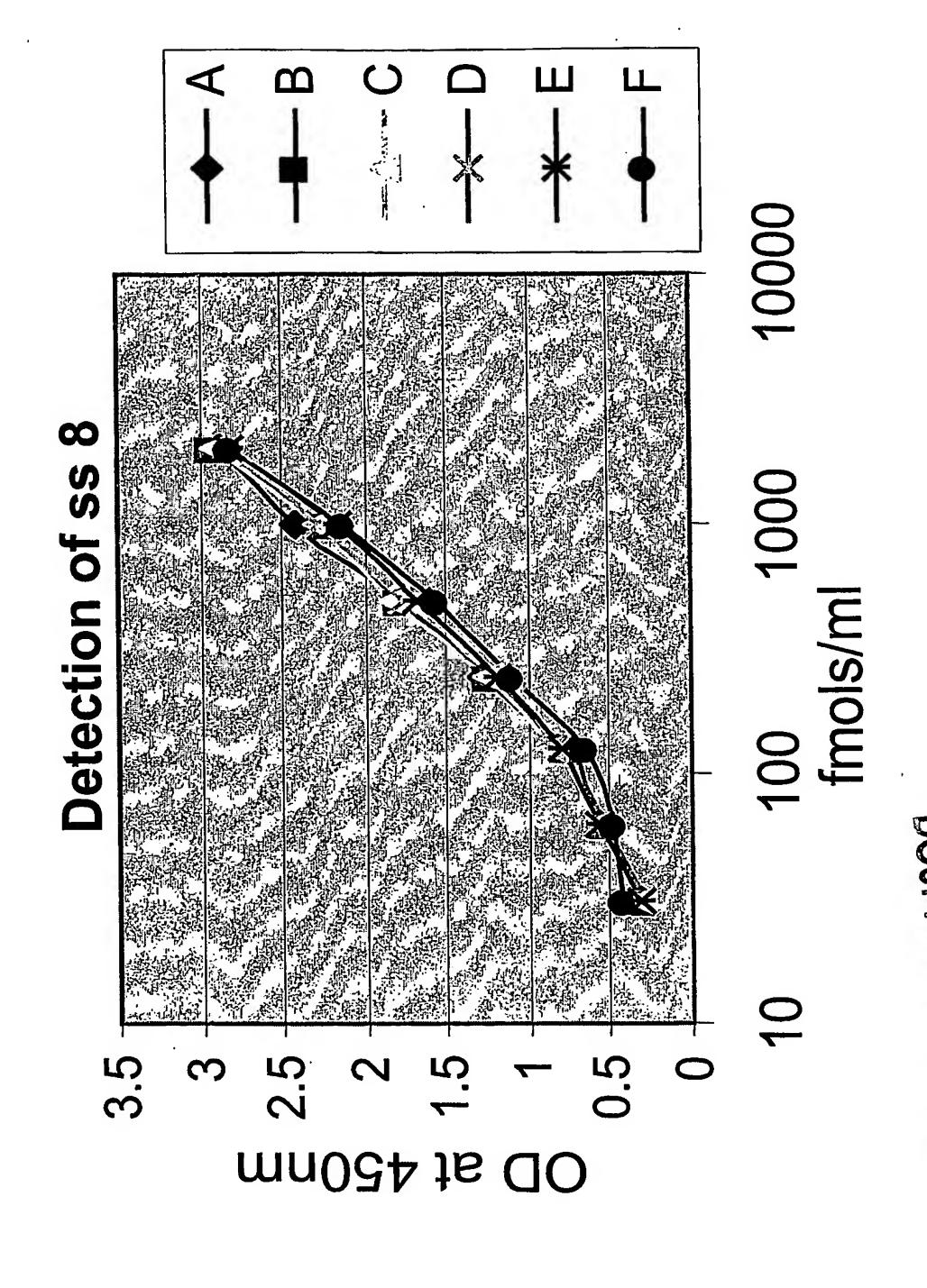
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e stranded Stab 7 cholestero Figure 5A: Effect of Hepatocyte lysate te siNA sequence on detection of singl conjuga



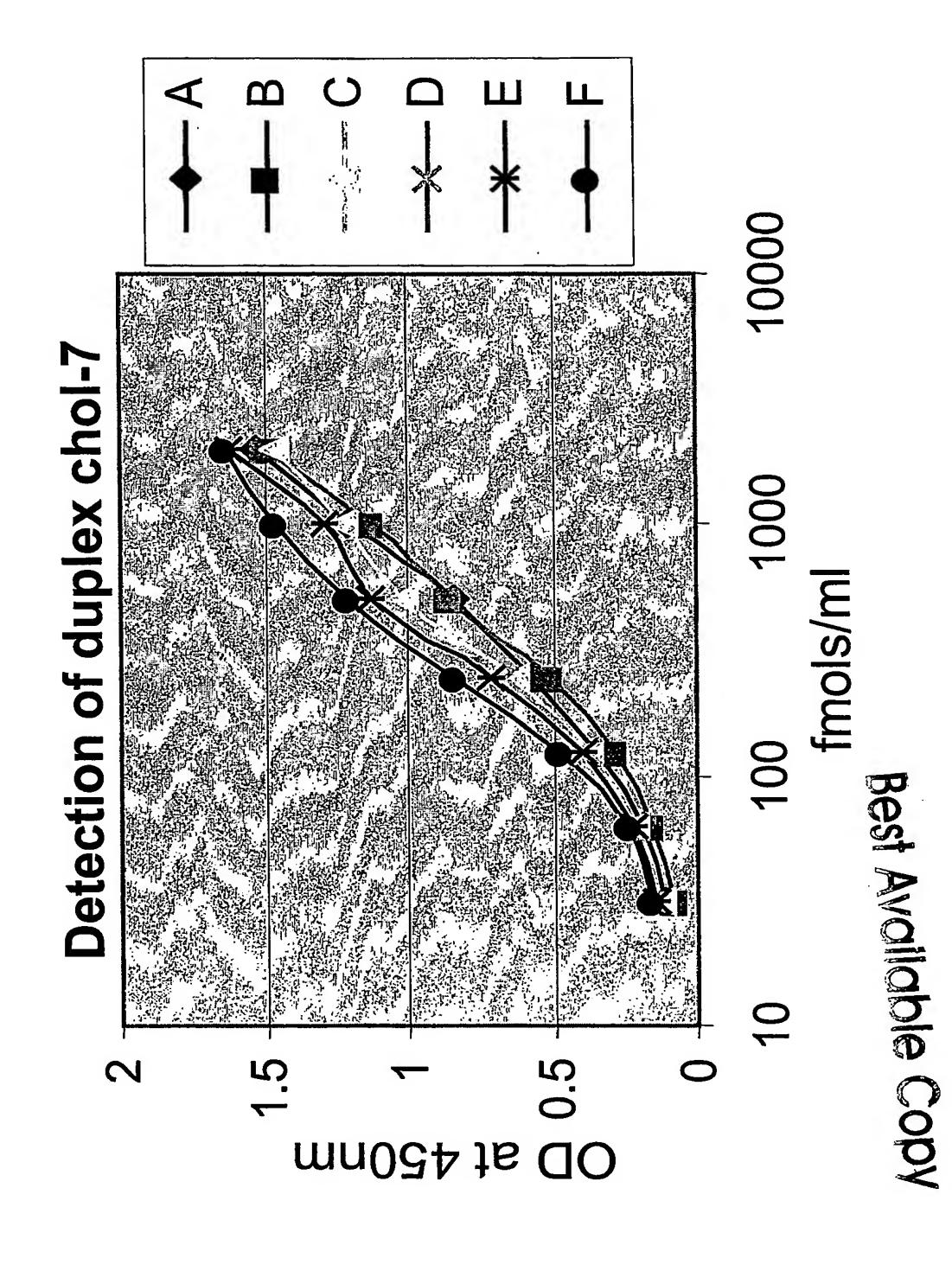
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ect of Hepatocyte lysate stranded Stab 8 siNA sequence Figure 5B: Eff on detection of single

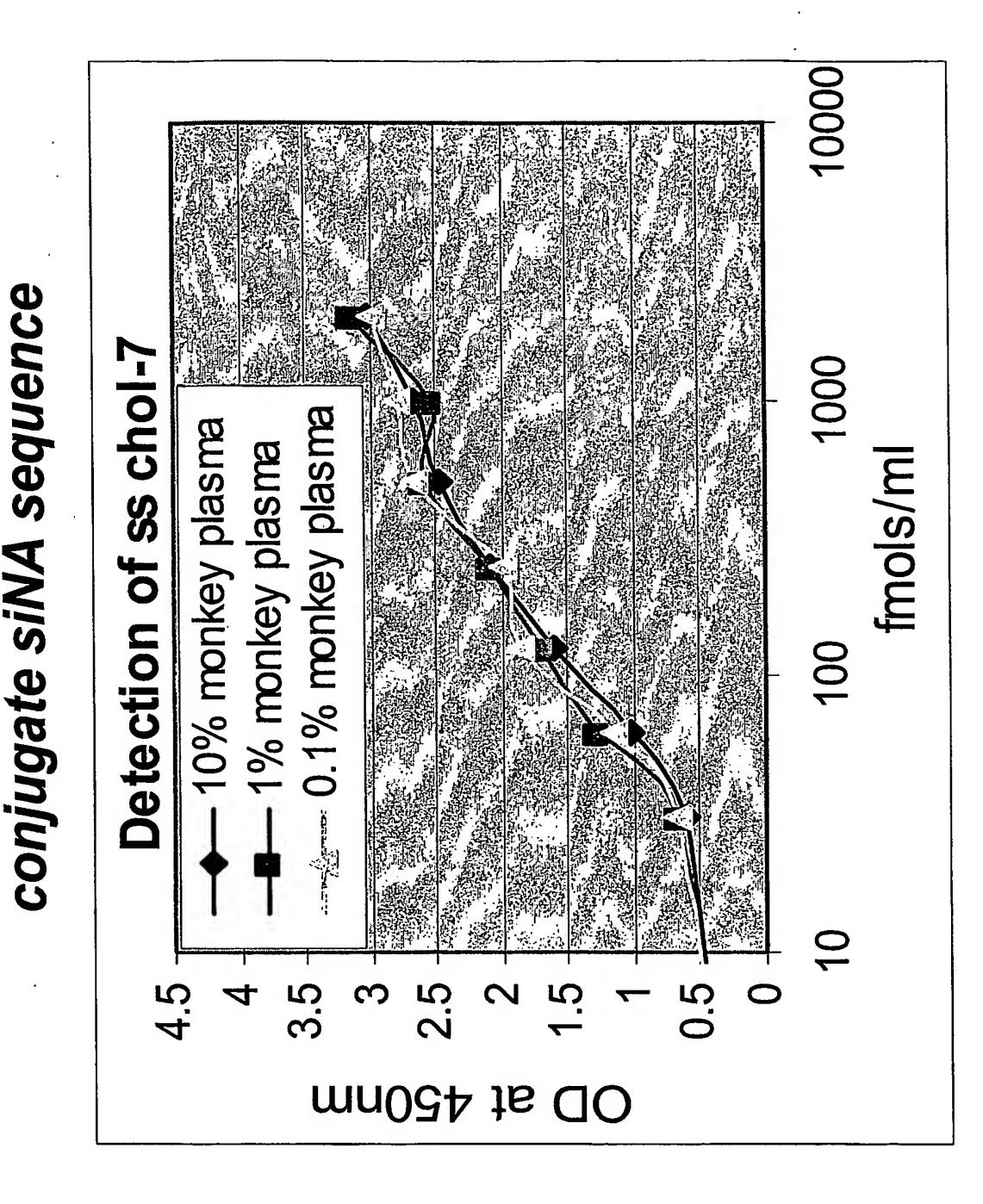


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Figure 5C: Effect of Hepatocyte lysate of Stab 7 cholesterol 'uplex siNA sequence on detection conjugate d



le stranded Stab 7 cholestero fect of monkey plasma te siNA sequence Figure 6A: Ei on detection of singl



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stranded Stab 8 siNA sequence Effect of monkey plasma on detection of single Figure 6B:

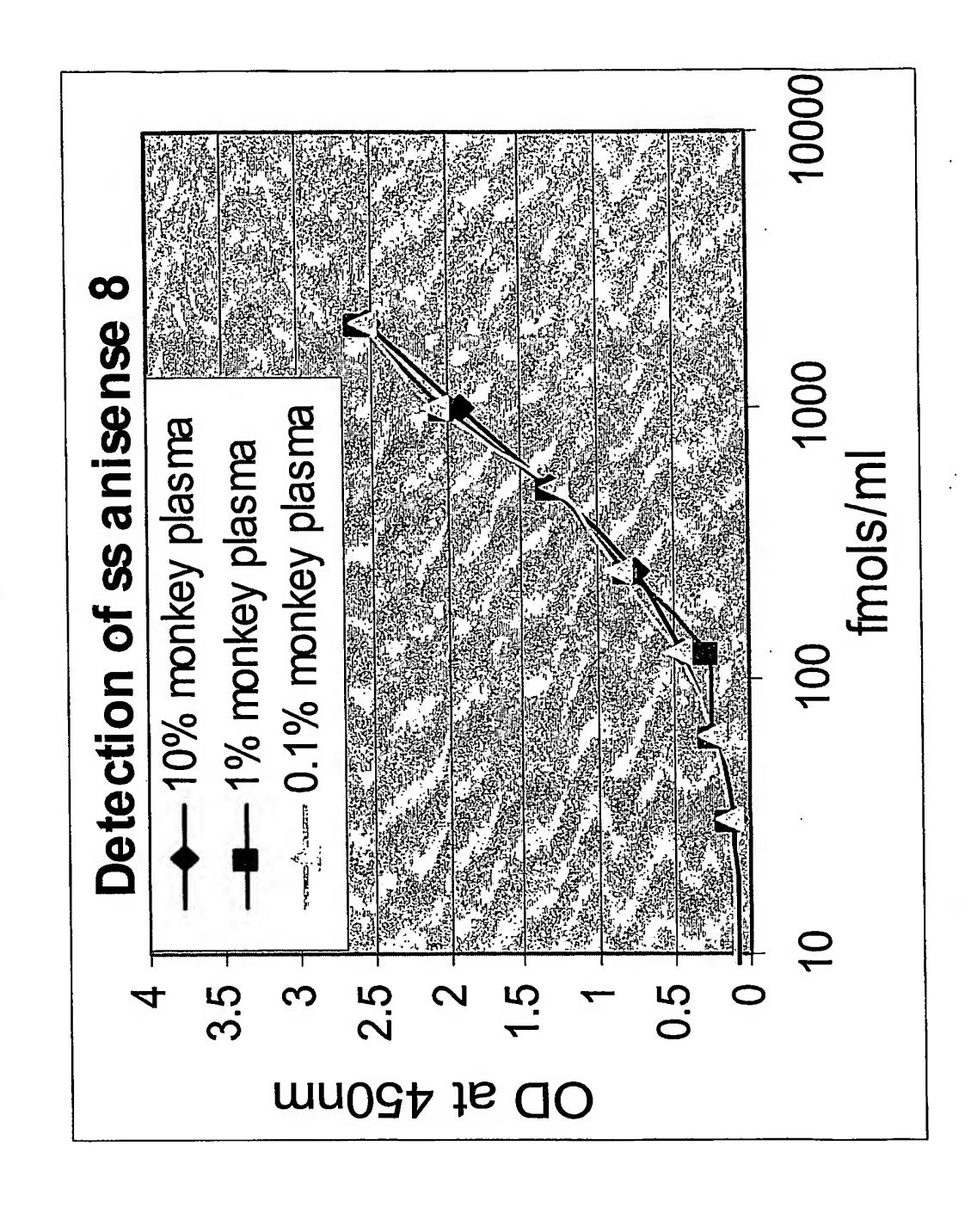
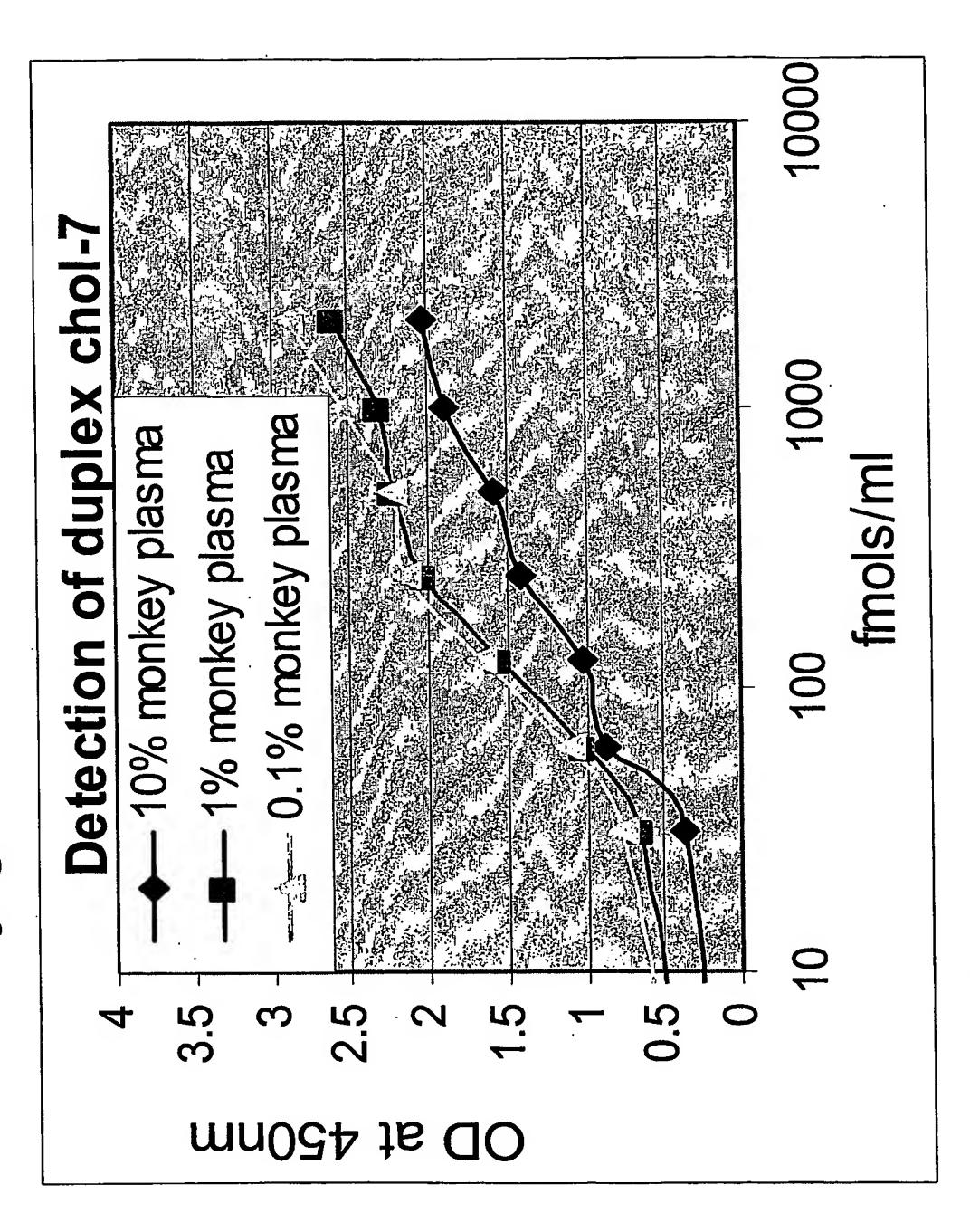


Figure 6C: Effect of monkey plasma of Stab 7 cholesterol 'uplex siNA sequence on detection conjugate d



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Figure 7: Concentration of siNA duplex and antisense Hepatocytes ln l

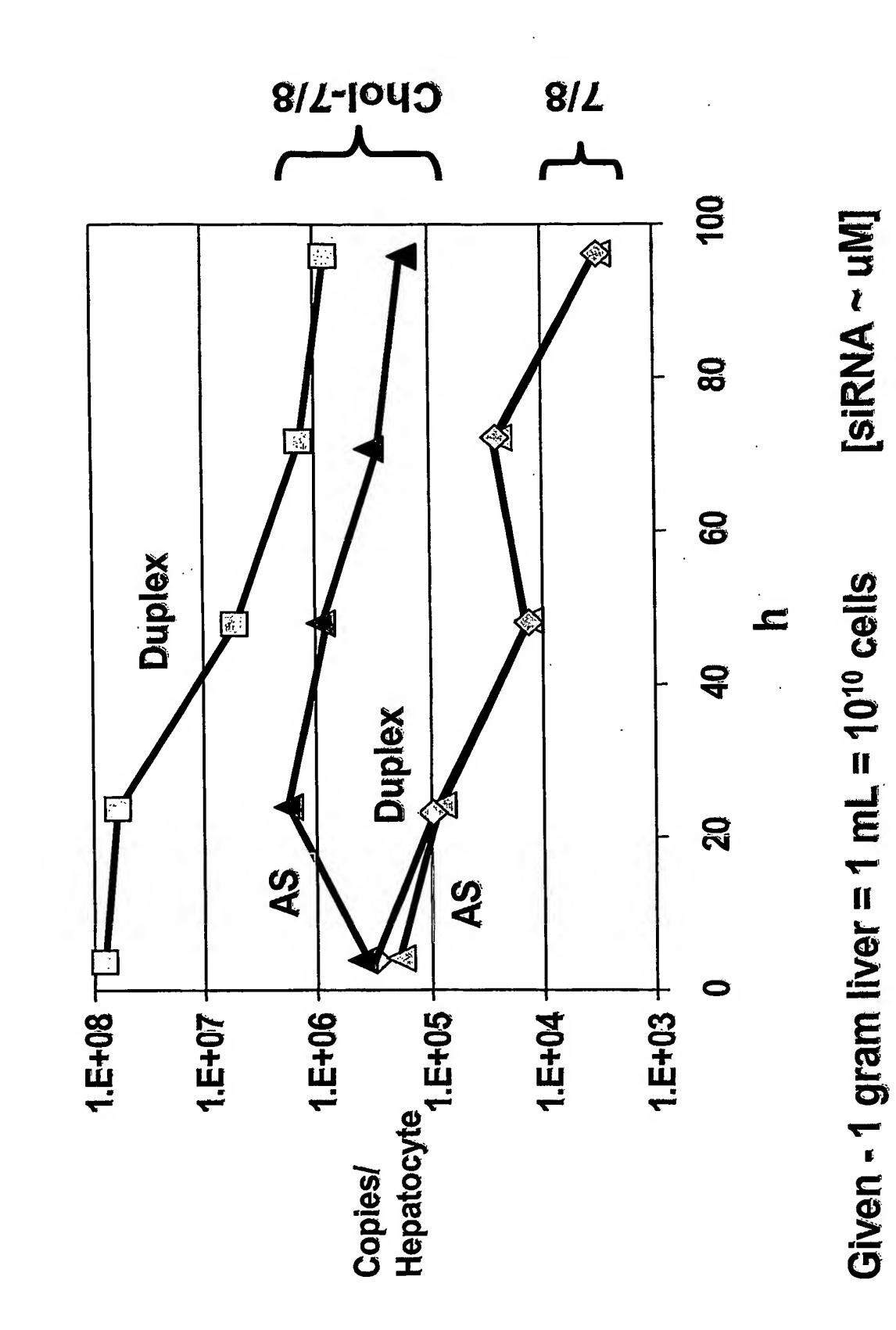


Figure 8: Removal of Competitive binding sequence duplex assay

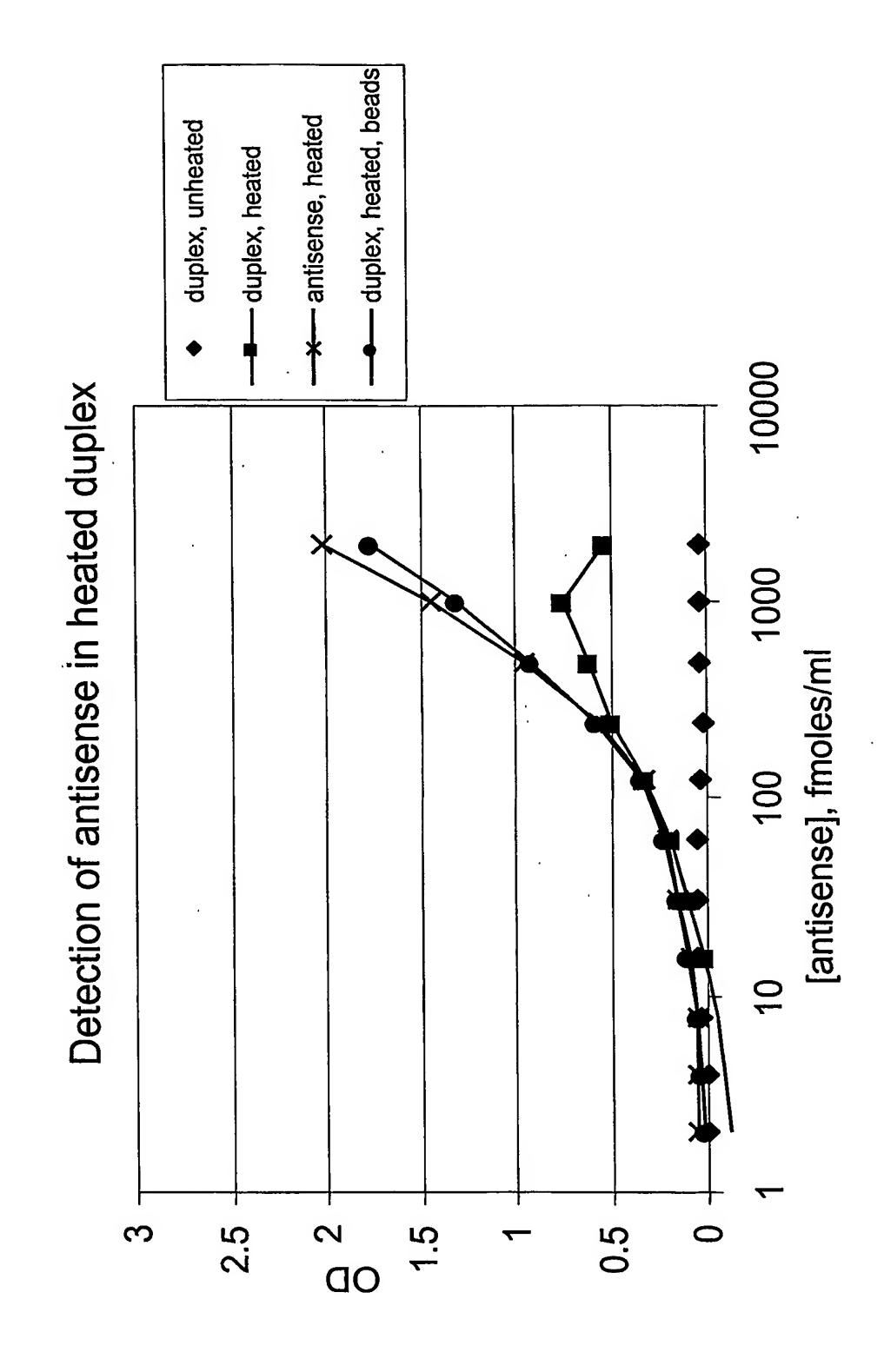
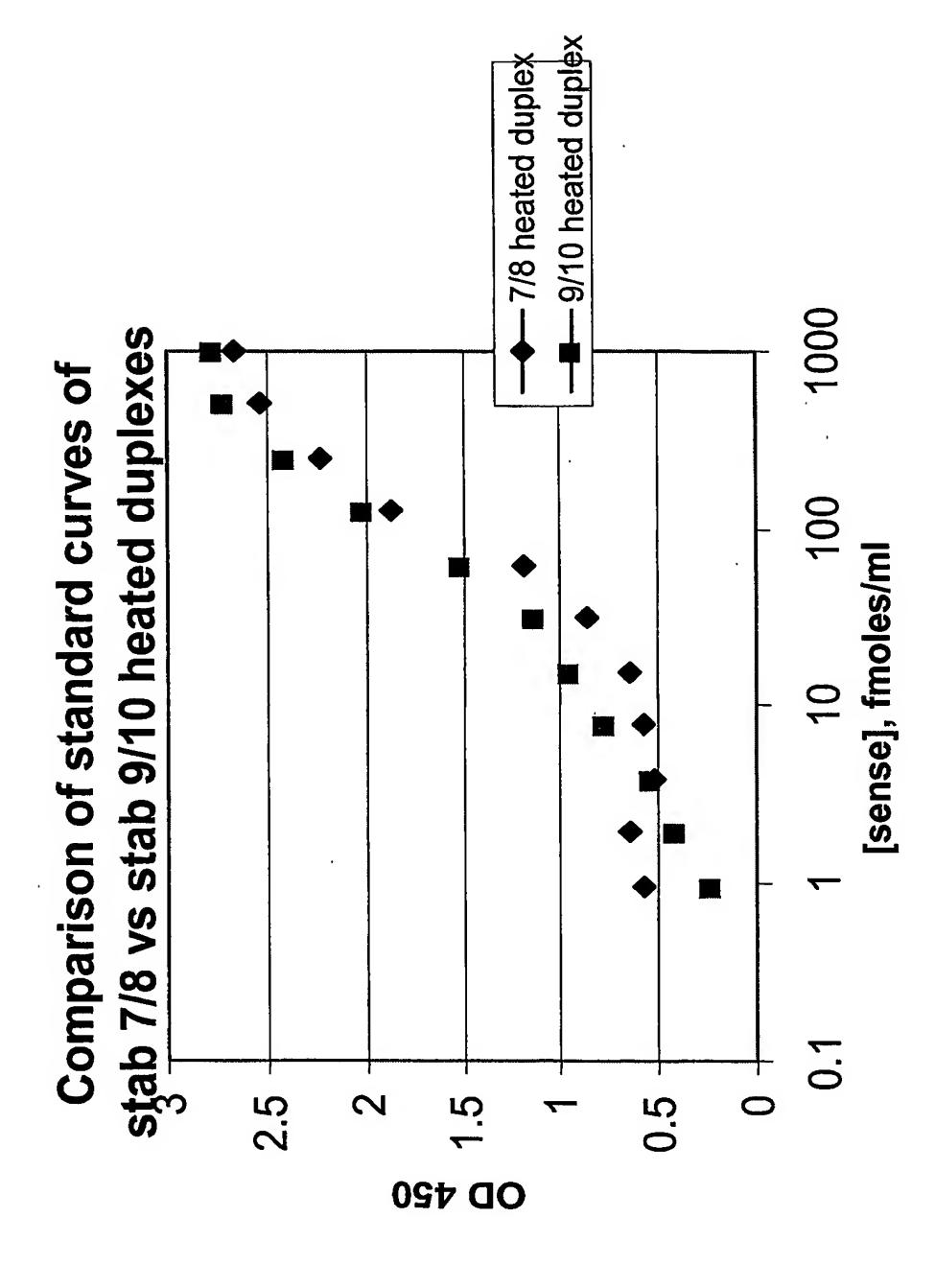
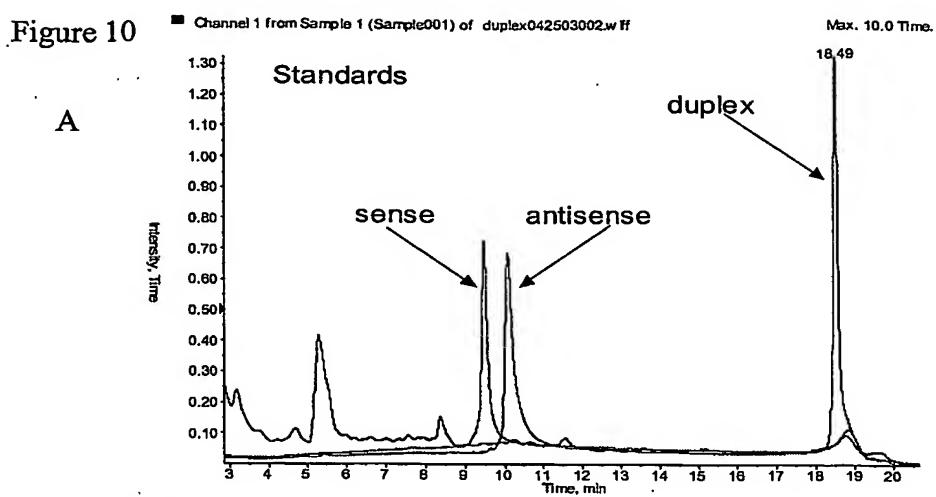
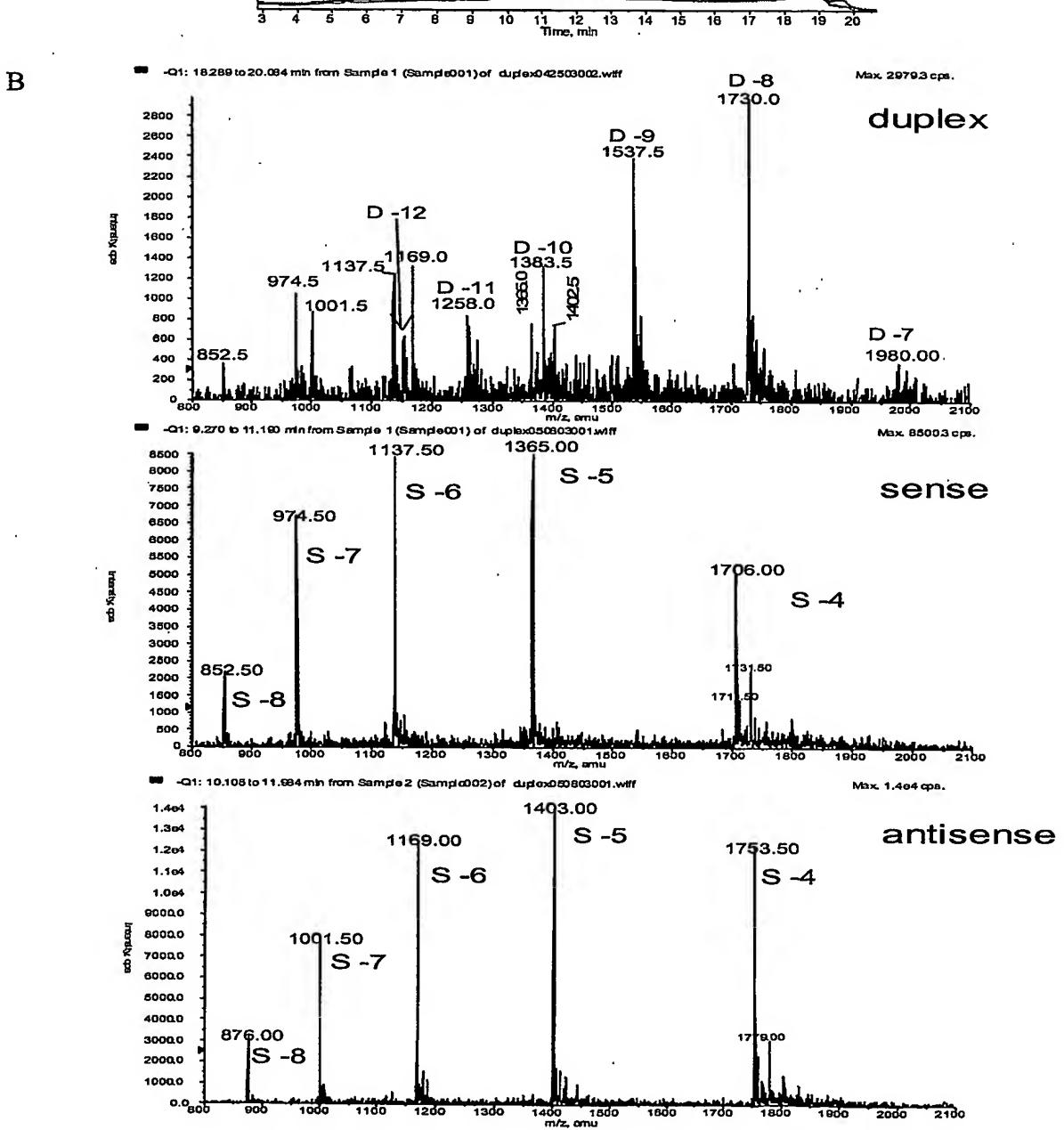


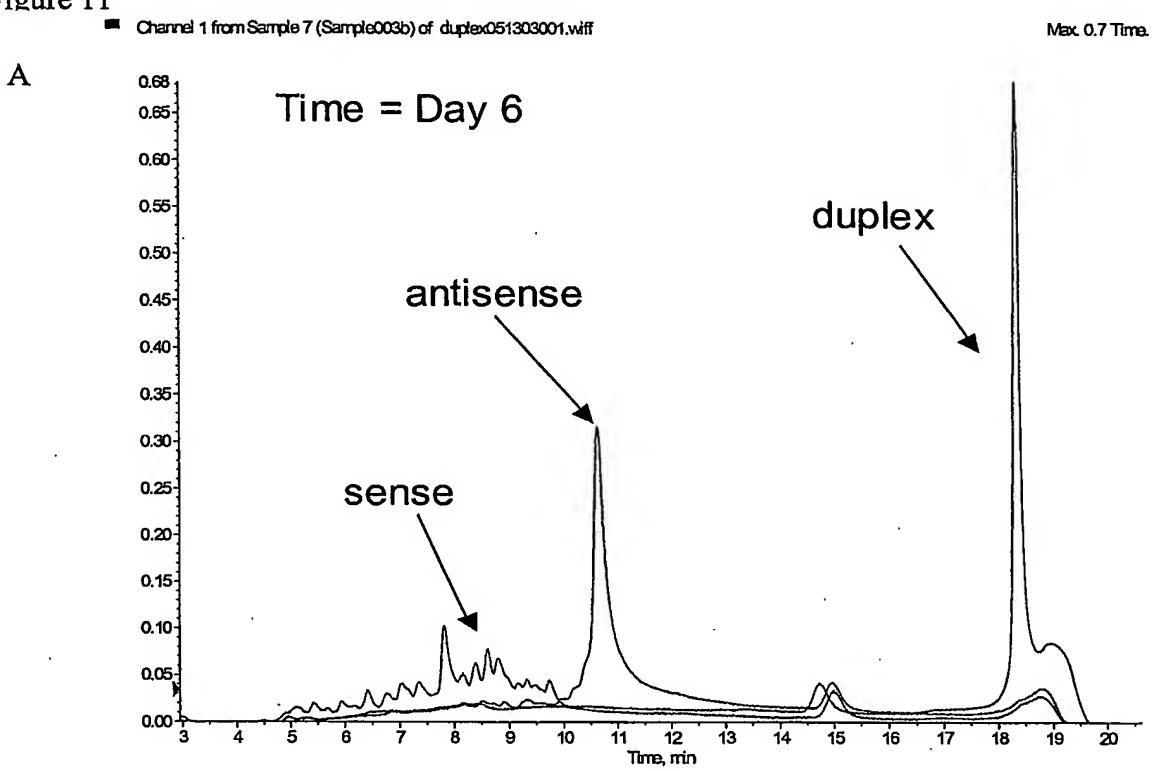
Figure 9: Application of Hybridization Assay to siNA molecules having identical sequence chemical modifications with differing

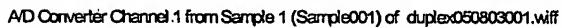












Max. 0.7 Time.

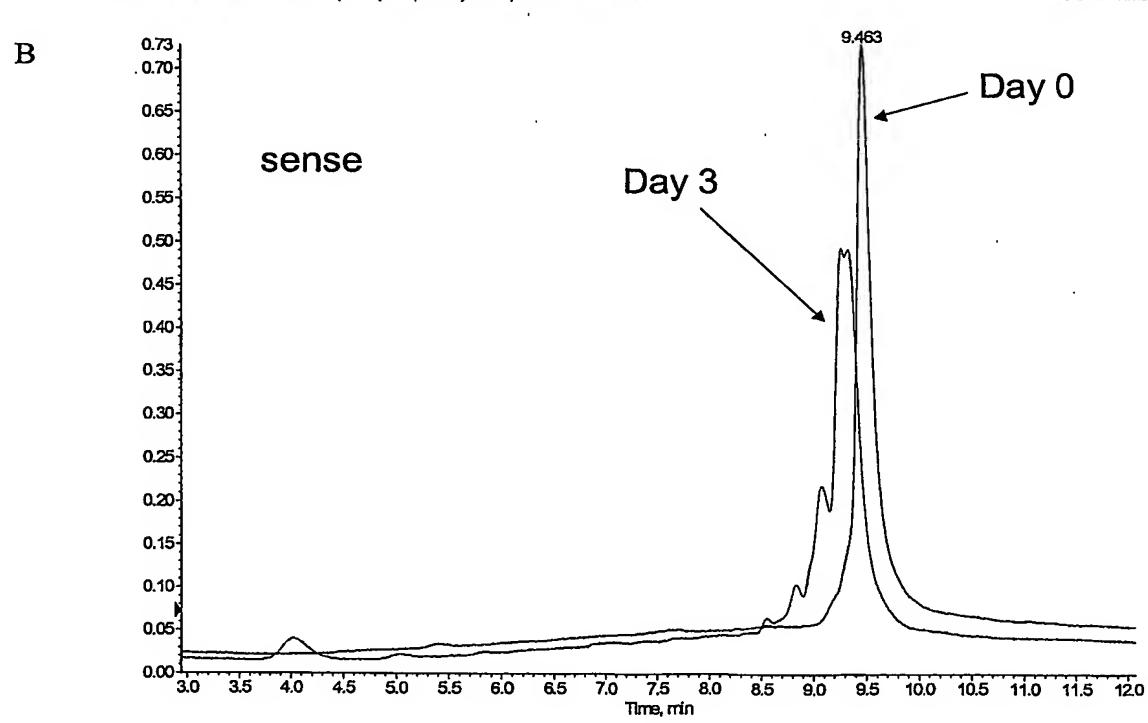
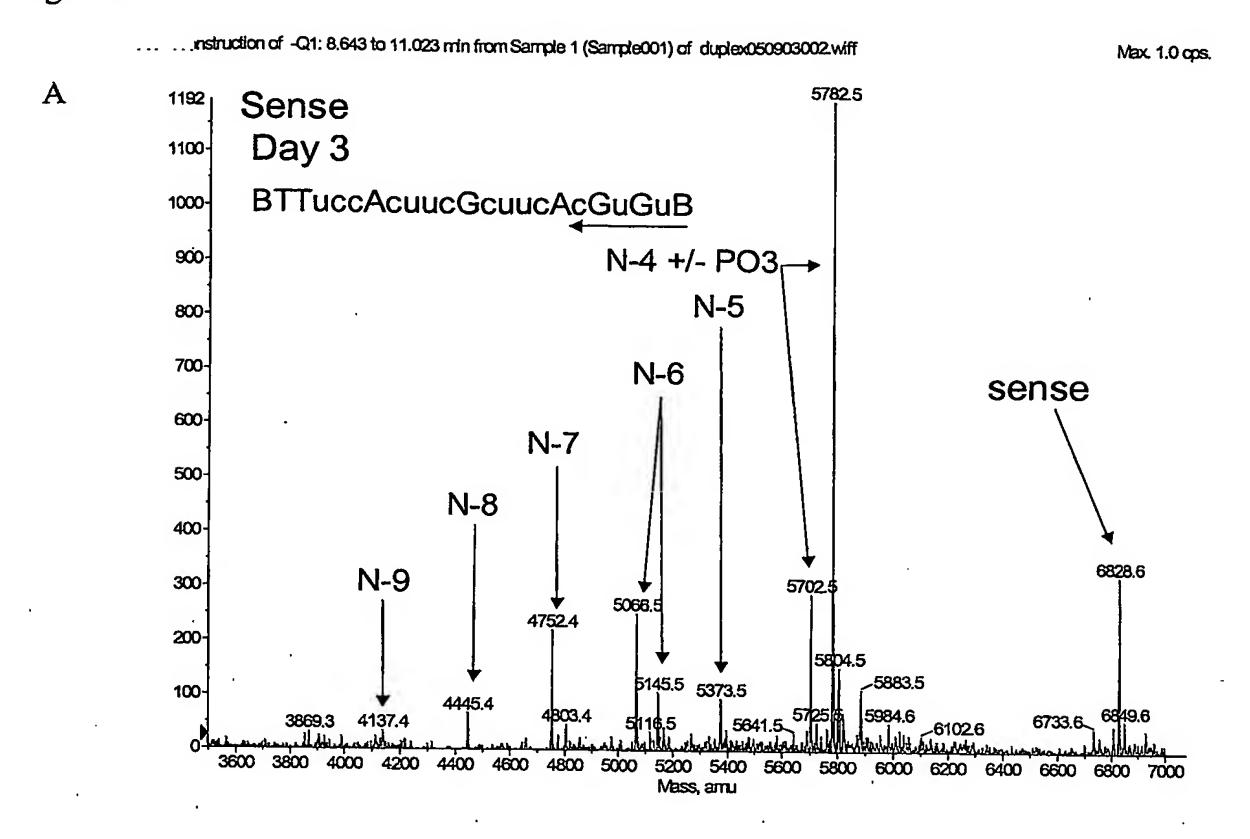


Figure 12





Max. 1.0 cps.

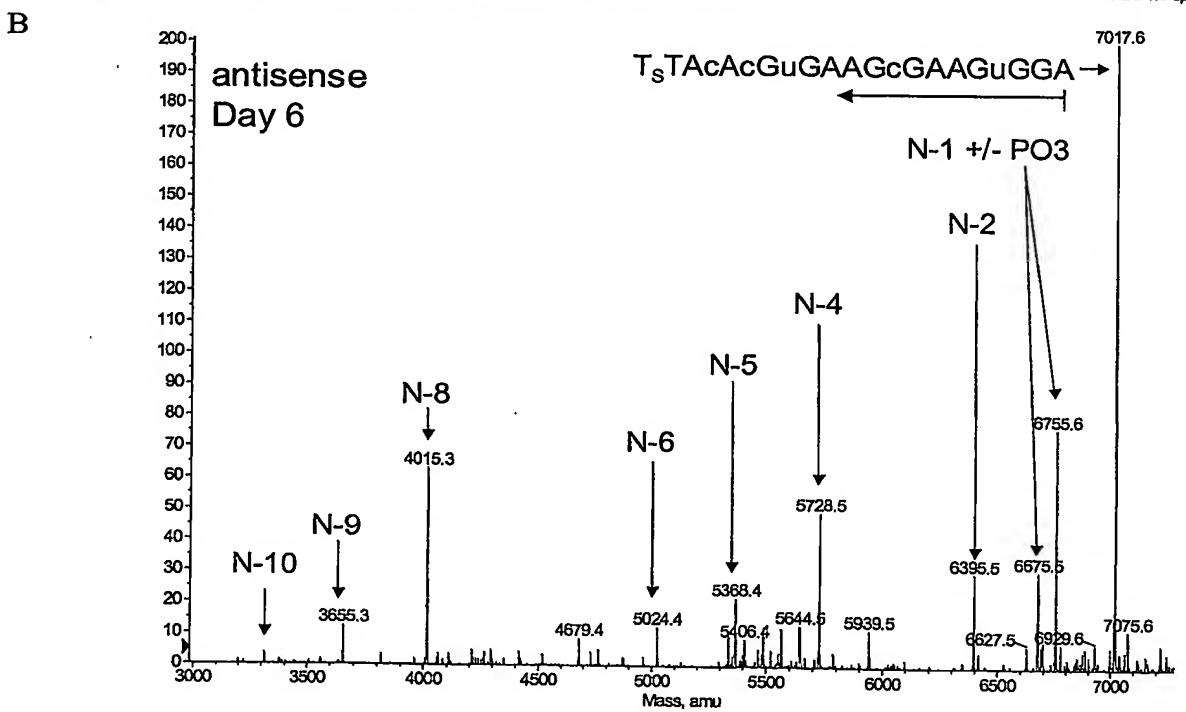
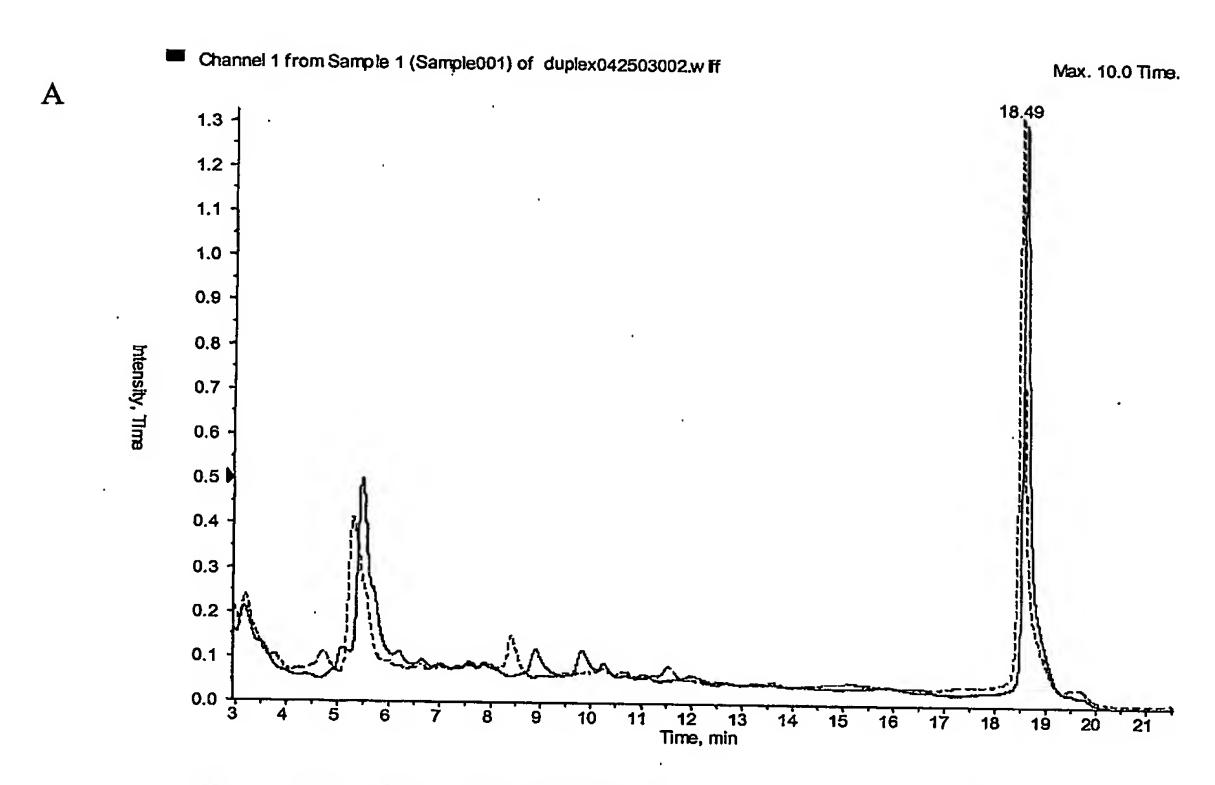
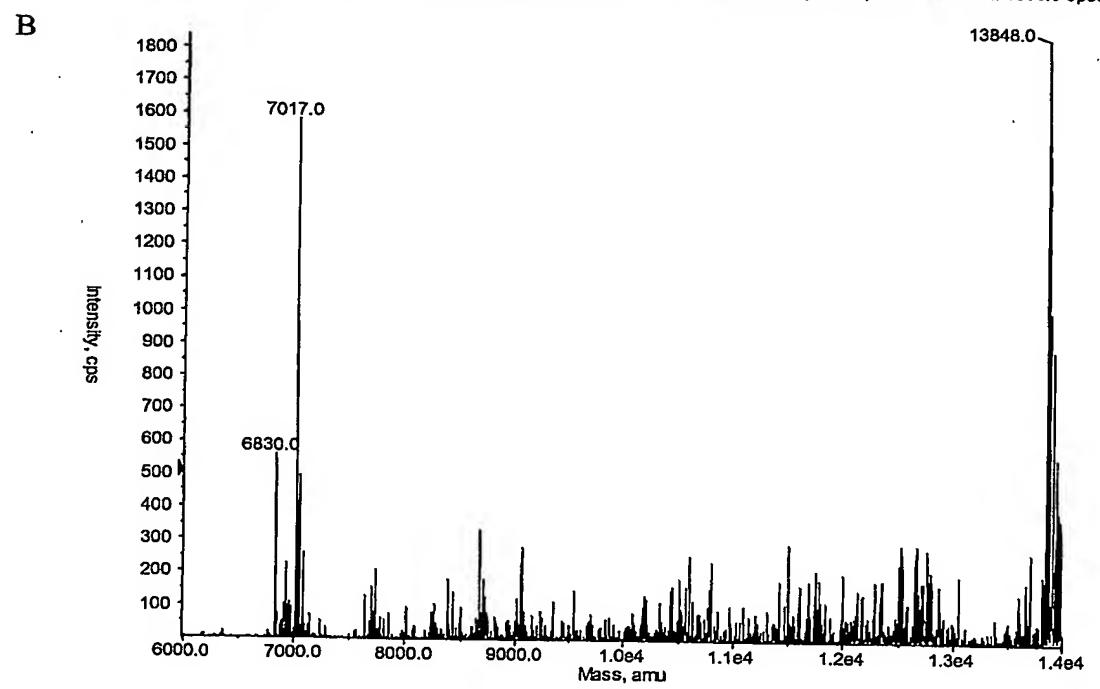
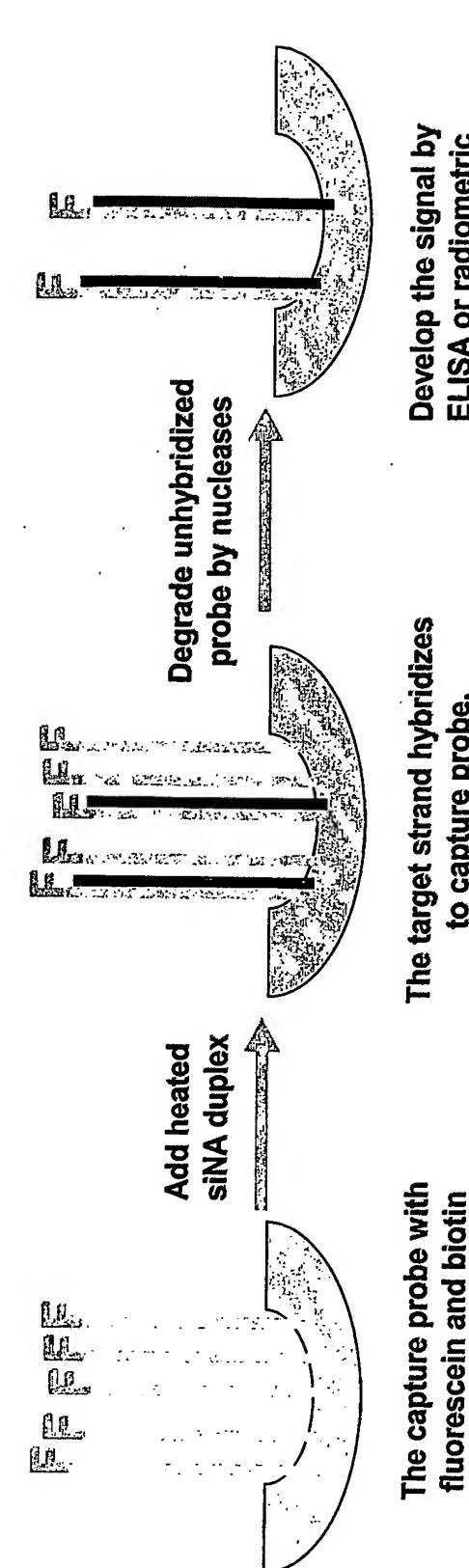


Figure 13



Mass reconstruction of -Q1: 17.787 to 19.833 mln from Sample 15 (Sample005a) of duplex05050...Max. 1836.9 cps.





Wash the unbound material capture probe.

complementary to target strand

ELISA or radiometric methods

target polynucleotide

= Labeled Capture Probe

Figure 15

Bind detection Analyte siNA sequence occupies binding sites on capture probe probe Bind analyte complement of analyte Defined low conc. Capture Probe= Molecule Reporter Coated plate

Labeled detection probe Analyte sequence with hapten

2). Therefore, signal is inversely proportional siRNA (in step 1) prevents binding of a secondary detection probe (in step In this design, binding of the target to analyte concentration.